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INFORMATION DISCLOSURE

(use as many sheets as necessary)

STATEMENT BY APPLICANT

Complete if Known				
Application Number	10/591,442			
Filing Date	September 01, 2006			
First Named Inventor	Dena LESHKOWITZ	_		
Art Unit	1653			
Examiner Name	Not Yet Assigned	_		

Sheet of Attorney Docket Number 32488 **U.S. PATENT DOCUMENTS** Name of Patentee or Applicant of Cited Document Pages, Columns, Lines, Where Publication Date DD-MMM-YYYY Examiner Cite Document Number Relevant Passages or Relevant Initials* Figures Appear Number-Kind Code^{2 (if known)} 7CW/ US-2002/0009727 24-Jan-2002 Schultz et al. 1 2 US-2003/0036073 20-Feb-2003 Saba 13-Apr-1993 3 Drmanac et al. US-5,202,231 11-Jun-1996 Drmanac et al. 4 US-5,525,464 US-5,695,940 09-Dec-1997 Drmanac et al. 5 25-Jun-2002 US-6,410,229 Lockhart et al. 6

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. 1	Foreign Patent Documents Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7			
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INFORMATION DISCLOSURE				Filing Date September 01, 200				
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(0141)	8	Cowie et al. "Identification of APC (
/CW/		Universal Microarray-Based Combin	natorial Sequencing-b	y-Hybridization", Hu	ıman			
8		Mutation, 24: 261-271, 2004.						
	9	De Saizieu et al. "Bacterial Transcrip			to			
0000		Oligonucleotice Arrays", Nature Bio						
8	10	Demoulins et al. "The Same TCR (N						
XX		with Several Different VBeta13 Sub			Onset			
0000		of the Desease", Neurobiology of D						
00	11	Drmanac et al. "Sequencing by Hybr		antages, Achieveme	nts and			
000		Opportunities", Biotechnology, 77: 7						
8	12	Ferrando et al. "Gene Expression Pro	ofiling: Will it compe	ment or Replace	,			
80		Immunophenotyping?", Best Practic	e & Research Clinica	l Heamatology, 16(4)): 645-			
90	İ	652, 2003.						
8	13	Fraser et al. "The VH Gene Repertoi	re of Splenic B Cells	and Somatic Hypern	nutation			
00000		in Systematic Lupus Erythematosus'	', Arthritis Research &	& Therapy, 5(2): 114	-121,			
8		2003.						
	14	Frieze et al. "Optimal Reconstruction	n of a Sequence from	its Probes", Journal	of			
8		Computational Biology, 6(3/4): 361-	-368, 1999.					
00000	15	Gasparotto et al. "Hepatitis C Virus,		and Lymphomas", Le	eukemia			
8		& Lymphoma, 43(4): 747-751, 2002	. Abstract.					
	16	Gerry et al. "Universal DNA Microa	rray Method for Mult	iplex Detection of L	ow			
XX	1	Abundance Point Mutations", J. Mo	l. Biol., 292: 251-262	, 1999				
8	17	Hodges et al. "Diagnostic Role of Te	ests for T Cell Recept	or (TCR) Genes", J (Clin			
999		Pathol, 56: 1-11, 2003.	·					
	18	Kienle et al. "VH Mutation Status at	nd VDJ Rearrangeme	nt Structure in Mantl	e Cell			
X		Lymphoma: Correlation With Genor	mic Aberrations, Clin	ical Characteristics,	and			
99999		Outcome", Blood, 102(8):3003-3009	9, 2003.					
000	.19	19 Kienle et al. "Distinct Gene Expression Patterns in Chronic Lymphocytic Leukemia Defined by Usage of Specific VH Genes", Blood, 107(5):2090-2093, 2006. 20 Kotlan et al. "Immunoglobulin Repertoire of B Lymphocyte Infiltrating Breast						
8	<u> </u>							
- 00	20							
	Medullary Carcinoma", Human Antibodies, 12(4): 113-121, 2003. Abstract.							
Link et al. "Clues to Etiology of Autoimmune Diseases Through Analysis of Immunoglobulin Genes", Arthritis research, 4:80-83, 2002.								
	22 Messmer et al. "The Pattern and Distribution of Immunoglobulin VH Gene Mutations							
0000		in Chronic Lymphocytic Leukemia	B Cells are Consisten	t With the Canonical				
8		Somatic Hypermutation Process", B	lood, 103(9):3490-34	95, 2004.				
Examiner		/Cynthia Wilder/		Date	04/10	/2008		
Signature	- [/Oynuna vviidei/		Considered	3,710	,		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/591,44		
				Filing Date	September		
				First Named Inventor		SHKOWITZ	
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/CW/	23		"Common Patterns Gene Usage in Aut	of B Cell Pertur	bation and Expanded V Infection", Autoimmun		
2000	24	Research, 31(22):1-6, 2003.		eptor Diversity", Nucle	ļ	
	25	Ohlin et al. "The	e Human Antibody F enesis", Molecular In		ectious Agents: Implica -11, 2003.	tions for	
	26	Pascual et al. "H	leavy Chain Variable	e Region Gene U	Itilization in Human Ar	ntibodies",	
	International Reviews in Immunology, 5(3-4): 231-238, 1990. Abstract. 27 Preparata et al. "Sequencing-by-Hybridization at the Information - Theory Bound: An Optimal Algorithm", Journal of Computational Biology, 7(3/4):621-630, 2000.						
00000	28	Quackenbush "Microarray Data Normalization and Transformation", Nature Genetics Supplement, 32:496-501, 2002.					
350000000000000000000000000000000000000	29	Quintana et al. " Repertoires Pred Acad. Sci. USA	dicts the Future Resp	mics: Microarray onse of Mice to	y Analysis of IgG Autor Induced Diabetes", Pro	antibody oc. Natl.	
0,000,000,000	30	Risitano et al. "I Tracking of Put	n-Vivo Dominant Ir	T-Cell Clones by	es in Aplastic Anaemia: y TCR Beta-CDR3 Sec	Molecular uencing",	
000000000000000000000000000000000000000	31	Ritgen et al. "Un Remains an Adv	nmutated Immunogle	obulin Variable I tor After Autolo	Heavy-chain Gene Stati gous Stem Cell Transp : 2049- 2053, 2003.		
000	32	Sade et al. "The Patients With A	Effect of Specific In llergy to House-Dus	nmunotherapy o t Mite", Allergy,	n T-Cell Receptor Repo , 58:430-434, 2003.		
	33	Shendure et al. Reviews, 5:335	"Advanced Sequenci	ng Technologies	s: Methods and Goals",	Nature	
000	34	Detection and C	enotyping Technolo	gies", Clinical C	by High-Throughput N Chemistry, 47(2):164-17	72, 2001.	
000000000000000000000000000000000000000	35	Centers Respon	natic Hypermutation ding to Acetylcholin 67:1935-1944, 2001.	e Receptor in M	f B Cells in Thymic Ge yasthenia Gravis", Jour	rminal rnal of	
×0000000000000000000000000000000000000	36	Tobin et al. "Su Indicate A Role	bsets With Restricte	d Immunoglobul on in the Develop	in Gene Rearrangemen pment of Chronic Lymp	t Features phocytic	
000000000000000000000000000000000000000	37	Tobin et al. "V(Characterization	H)3-21 Gene Usage	in Chronic Lym p With Distinct	phocytic Leukemia Molecular Features and 8, 2004. Abstract.	Poor	

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/Cynthia Wilder/

Examiner

Signature

Date

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Examiner	/Cynthia Wilder/	Date	04/10/2008
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